

REMARKS/ARGUMENTS

The Office Action of July 13, 2005, has been carefully considered.

It is noted that claims 67 and 86 are objected to for containing various informalities.

Claims 30,31,49,68-71 and 75-81 are rejected under 35 U.S.C. §112, second paragraph.

Claims 67-74 and 82-85 are rejected under 35 U.S.C. §102(b) over JP 61-016817.

Claims 26,30-37,45-48,51-54,63-74 and 82-85 are rejected under 35 U.S.C. §103(a) over the patent to Johnson in view of JP 61-016817.

Claims 38-44 and 75-81 are rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817.

Claims 38-44 and 75-81 are rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817, and further in view of the patent to Vandas.

Claims 49 and 86 are rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817, and in further view of JP 07-314477.

Claim 50 is rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817, and further in view of the patent to Holtzberg.

Claims 55-62 are rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817, and in further view of the patent to Jones.

Claims 60-62 are rejected under 35 U.S.C. §103(a) over Johnson in view of JP 61-016817, and in further view of Jones and the patent to Daskivich.

Claims 75-81 are rejected under 35 U.S.C. §103(a) over JP 61-016817 in view of Vandas.

Claim 86 is rejected under 35 U.S.C. §103(a) over JP 61-016817 in view of JP 07-314477.

In view of the Examiner's objections to and rejections of the claims, applicant has canceled claims 30 and 68, and amended claims 26, 31,49,67 and 69.

With the amendment to claim 67 it is respectfully submitted that the informalities pointed out by the examiner are corrected. Thus it is respectfully submitted that the objection to claims 67-86 as containing informalities is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant has amended the claims to address the instances of indefinite as cited by the examiner.

In view of the considerations it is respectfully submitted that the rejection of claims 30-31, 49,68-71 and 75-81 under 35 U.S.C. §112, second paragraph is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file differ essentially and in an unobvious, highly advantageous manner from the processes disclosed in the references.

The references have all been previously discussed to various extents in prior Office Actions. Those comments remain applicable and applicant incorporates them herein by reference in order to avoid redundancy. The following additional comments are provided.

The temperature criteria cited in the pending claims presently on file is important for controlling the thermal expansion of the wax material which generally has a high coefficient of thermal expansion. Thus the dimension of the plastically deformed wax body will be conserved during the RTM-process or will only change slightly, so that the geometry of the final composite part is not negatively influenced by a tremendous expansion or shrinking of the core material. This allows a very precise reproduction of the composite. In a specific embodiment of the invention a small volume expansion of the wax core is desired during the RTM-process by increasing the temperature of the wax core. This is desired for pressing the resin into the fiber fabrics by means of the expanding core. However, in comparison to the absolute temperatures of the wax core during press-forming during RTM-process these temperature differences are minor.

None of the references relied upon by the examiner, taken either alone or in combination, disclose or suggest the presently claimed invention. For example, JP 61-016817 describes the press forming of wax material of an unformed bulk material. The bulk material itself is not pre-shaped, i.e. is not in the rough form of the final shape. Furthermore, the reference does not give any link to an RTM-process using meltable wax cores.

Additionally, none of the references suggest that the average temperature during the plastic deformation and the average temperature during the RTM-process should be at least substantially the same.

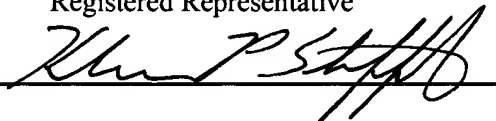
In view of these considerations, it is respectfully submitted that the various rejections of the claims under either 35 U.S.C. §102(b) or 35 §U.S.C. 103(a) are overcome and should be withdrawn.

Reconsideration and allowance of the present application are respectfully requested.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on March 17, 2005:

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Name of applicant, assignee or
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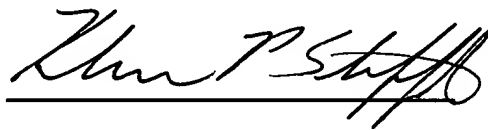
Signature

October 12, 2005

Date of Signature

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Respectfully submitted,



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